

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/297,748A  
Source: JFW16  
Date Processed by STIC: 11/15/2005

***ENTERED***



IFW16

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/797,748A

DATE: 11/15/2005

TIME: 10:24:13

Input Set : A:\51302-00002 Sequence Listing.txt  
 Output Set: N:\CRF4\11152005\J797748A.raw

3 <110> APPLICANT: MGP Biotechnologies LLC  
 4       Avey, Roger A.  
 5       Mustillo, Michael  
 6       Harpham, Brenton G.  
 8 <120> TITLE OF INVENTION: Metal Binding Proteins and Associated Methods  
 10 <130> FILE REFERENCE: 51302-00002  
 12 <140> CURRENT APPLICATION NUMBER: 10/797,748A  
 13 <141> CURRENT FILING DATE: 2004-03-09  
 15 <150> PRIOR APPLICATION NUMBER: 09/948,495  
 16 <151> PRIOR FILING DATE: 2001-09-06  
 18 <160> NUMBER OF SEQ ID NOS: 10  
 20 <170> SOFTWARE: PatentIn version 3.2  
 22 <210> SEQ ID NO: 1  
 23 <211> LENGTH: 147  
 24 <212> TYPE: DNA  
 25 <213> ORGANISM: Artemia sp.  
 27 <400> SEQUENCE: 1  
 28 atggactgct gcaagaacgg ttgcacctgt gccccaaatt gcaaatgtgc caaagactgc       60  
 30 aaatgctgca aagggttgtga gtgaaaagc aacccagaat gcaaatgtga gaagaactgt       120  
 32 tcatgcaact catgtggttg tcactga   147  
 35 <210> SEQ ID NO: 2  
 36 <211> LENGTH: 48  
 37 <212> TYPE: PRT  
 38 <213> ORGANISM: Artemia sp.  
 40 <400> SEQUENCE: 2  
 42 Met Asp Cys Cys Lys Asn Gly Cys Thr Cys Ala Pro Asn Cys Lys Cys  
 43       1               5               10               15  
 46 Ala Lys Asp Cys Lys Cys Cys Lys Gly Cys Glu Cys Lys Ser Asn Pro  
 47       20           25               30  
 50 Glu Cys Lys Cys Glu Lys Asn Cys Ser Cys Asn Ser Cys Gly Cys His  
 51       35           40               45  
 54 <210> SEQ ID NO: 3  
 55 <211> LENGTH: 66  
 56 <212> TYPE: DNA  
 57 <213> ORGANISM: Artemia sp.  
 59 <400> SEQUENCE: 3  
 60 atggactgct gcaagaacgg ttgcacctgt gccccaaatt gcaaatgtgc caaagactgc       60  
 62 aaatgc   66  
 65 <210> SEQ ID NO: 4  
 66 <211> LENGTH: 22  
 67 <212> TYPE: PRT  
 68 <213> ORGANISM: Artemia sp.  
 70 <400> SEQUENCE: 4

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72 Met Asp Cys Cys Lys Asn Gly Cys Thr Cys Ala Pro Asn Cys Lys Cys  
 73 1 5 10 15  
 76 Ala Lys Asp Cys Lys Cys  
 77 20  
 80 <210> SEQ ID NO: 5  
 81 <211> LENGTH: 34  
 82 <212> TYPE: DNA  
 83 <213> ORGANISM: Artificial  
 85 <220> FEATURE:  
 86 <223> OTHER INFORMATION: 5' primer (N-terminal side) designated MT-Not I for PCR  
 87 amplification of Artemia metal binding protein sequences  
 89 <400> SEQUENCE: 5  
 90 acctatgcgg ccgcaaatgg actgctgcaa gaac 34  
 93 <210> SEQ ID NO: 6  
 94 <211> LENGTH: 31  
 95 <212> TYPE: DNA  
 96 <213> ORGANISM: Artificial  
 98 <220> FEATURE:  
 99 <223> OTHER INFORMATION: 3' primer (C -terminal side) designated dT-Not I for PCR  
 100 amplification of Artemia metal binding protein sequences  
 102 <400> SEQUENCE: 6  
 103 gcaccaacta gtgcctttt tttttttt a 31  
 106 <210> SEQ ID NO: 7  
 107 <211> LENGTH: 31  
 108 <212> TYPE: DNA  
 109 <213> ORGANISM: Artificial  
 111 <220> FEATURE:  
 112 <223> OTHER INFORMATION: 3' primer (C -terminal side) designated dT-Not I for PCR  
 113 amplification of Artemia metal binding protein sequences  
 115 <400> SEQUENCE: 7  
 116 gcaccaacta gtgcctttt tttttttt c 31  
 119 <210> SEQ ID NO: 8  
 120 <211> LENGTH: 31  
 121 <212> TYPE: DNA  
 122 <213> ORGANISM: Artificial  
 124 <220> FEATURE:  
 125 <223> OTHER INFORMATION: 3' primer (C -terminal side) designated dT-Not I for PCR  
 126 amplification of Artemia metal binding protein sequences  
 128 <400> SEQUENCE: 8  
 129 gcaccaacta gtgcctttt tttttttt g 31  
 132 <210> SEQ ID NO: 9  
 133 <211> LENGTH: 33  
 134 <212> TYPE: DNA  
 135 <213> ORGANISM: Artificial  
 137 <220> FEATURE:  
 138 <223> OTHER INFORMATION: 5' primer containing an Nde I site  
 140 <400> SEQUENCE: 9  
 141 gctacacata tgtccatgga ctgctgcaag aac 33  
 144 <210> SEQ ID NO: 10

RAW SEQUENCE LISTING  
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145 <211> LENGTH: 31  
146 <212> TYPE: DNA  
147 <213> ORGANISM: Artificial  
149 <220> FEATURE:  
150 <223> OTHER INFORMATION: 3' primer containing Sal I site  
152 <400> SEQUENCE: 10  
153 acgaacgtcg acgcctttt tttttttt a

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 11/15/2005  
PATENT APPLICATION: US/10/797,748A TIME: 10:24:14

Input Set : A:\51302-00002 Sequence Listing.txt  
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### Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:5,6,7,8,9,10

**VERIFICATION SUMMARY**

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